

Appl. No.: 10/618,499
Amdt. dated June 10, 2005
Reply to Office Action of May 12, 2005

I. AMENDMENTS TO THE CLAIMS:

The following listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Previously Presented) The article of claim 41, wherein the lignocellulosic substrate is prepared by
 - (1) impregnating a lignocellulosic material with an isocyanate resin material;
 - (2) removing excess isocyanate resin from the impregnated lignocellulosic material by impinging air at a high flow rate upon the impregnated lignocellulosic material;
 - (3) polymerizing the resin by applying water to the impregnated lignocellulosic material, the water being at a temperature sufficient for polymerization; and
 - (4) removing the water from the polymerized resin-impregnated lignocellulosic material.
2. (Previously Presented) The article of claim 1, wherein the impregnated lignocellulosic material is substantially non-conductive.
3. (Previously Presented) The article of claim 1, wherein the lignocellulosic material comprises material selected from the group consisting of medium density fiberboard, high density fiberboard, oriented strand board, particle board, hemp, sisal, cotton stalk, wheat, straw, bamboo, jute, salt water reeds, palm fronds, flax, groundnut shells, hard woods and soft woods.

Appl. No.: 10/618,499
Amdt. dated June 10, 2005
Reply to Office Action of May 12, 2005

4. (Previously Presented) The article of claim 1, wherein the article comprises a veneer, sheet or panel.
5. (Previously Presented) The article of claim 1, wherein the article comprises a building component.
6. (Previously Presented) The article of claim 5, wherein the building component comprises a door component.
7. (Previously Presented) The article of claim 5, wherein the building component comprises a subfloor component.
8. (Previously Presented) The article of claim 5, wherein the building component comprises a roofing substrate component.
9. (Previously Presented) The article of claim 5, wherein the building component comprises a soffit component.
10. (Previously Presented) The article of claim 5, wherein the building component is adapted for marine construction.
11. (Previously Presented) The article of claim 1, wherein the article comprises a fence component.
12. (Previously Presented) The article of claim 1, wherein the article comprises a recreational equipment component.

Appl. No.: 10/618,499
Amdt. dated June 10, 2005
Reply to Office Action of May 12, 2005

13. (Previously Presented) The article of claim 1, wherein the article comprises a component of a sign.
14. (Previously Presented) The article of claim 1, wherein the article comprises furniture.
15. (Previously Presented) The article of claim 41, wherein said impregnated lignocellulosic substrate is substantially non-conductive.
16. (Cancelled)
17. (Previously Presented) The article of claim 41, wherein the impregnated lignocellulosic substrate further exhibits increased strength over an un-impregnated lignocellulosic substrate.
18. (Previously Presented) The article of claim 41, wherein the impregnated lignocellulosic substrate further exhibits an increased resistance to water over an un-impregnated lignocellulosic substrate.
19. (Previously Presented) The article of claim 41, wherein the lignocellulosic substrate comprises material selected from the group consisting of medium density fiberboard, high density fiberboard, oriented strand board, particle board, hemp, sisal, cotton stalk, wheat, straw, bamboo, jute, salt water reeds, palm fronds, flax, groundnut shells, hard woods and soft woods.
20. (Previously Presented) The article of claim 41, wherein the polyisocyanate material comprises methylene diphenyl diisocyanate or poly(methylene diphenyl diisocyanate).

Appl. No.: 10/618,499
Amdt. dated June 10, 2005
Reply to Office Action of May 12, 2005

21. (Previously Presented) The article of claim 41, wherein the polyisocyanate material comprises polyisocyanate resin.
22. (Previously Presented) The article of claim 41, wherein the lignocellulosic substrate comprises a veneer, sheet or panel.
23. (Previously Presented) The article of claim 41, wherein the article comprises a building component.
24. (Original) The article of claim 23, wherein the building component comprises a door component.
25. (Original) The article of claim 23, wherein the building component comprises a subfloor component.
26. (Original) The article of claim 23, wherein the building component is adapted for marine construction.
27. (Original) The article of claim 23, wherein the building component comprises a soffit component.
28. (Original) The article of claim 23, wherein the building component comprises a roofing substrate component.
29. (Previously Presented) The article of claim 41, wherein the article comprises a fence component.

Appl. No.: 10/618,499
Amdt. dated June 10, 2005
Reply to Office Action of May 12, 2005

30. (Previously Presented) The article of claim 41, wherein the article comprises a recreational equipment component.
31. (Previously Presented) The article of claim 41, wherein the article comprises a component of a sign.
32. (Previously Presented) The article of claim 41, wherein the article comprises a furniture component.
33. (Previously Presented) The article of claim 41, wherein the substrate is impregnated by application of the polyisocyanate material upon the surface of the substrate with a nozzle.
34. (Previously Presented) The article of claim 41, wherein the substrate is impregnated by soaking the substrate in the polyisocyanate material.
- 35-36. (Cancelled)
37. (Previously Presented) The article of claim 41, wherein the impregnated substrate is further impregnated with the polyisocyanate material by impinging air upon the surface.
38. (Previously Presented) The article of claim 41, wherein excess polyisocyanate material on the surface of the impregnated substrate is removed by impinging air upon the surface.
39. (Previously Presented) The article of claim 41, wherein the smooth, low-gloss surface of the impregnated substrate is polymerized by water.

Appl. No.: 10/618,499
Amdt. dated June 10, 2005
Reply to Office Action of May 12, 2005

40. (Cancelled)

41. (Currently Amended) An article comprising a lignocellulosic substrate impregnated with a polyisocyanate material,

wherein the impregnated lignocellulosic substrate comprises a smooth, low-gloss surface, and

wherein the substrate comprises a moisture content that is about 0.1 to 2.5% less than 2% by weight after the substrate is dried and before the substrate is impregnated with the polyisocyanate material.

42-44. (Cancelled)